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**From:** Healy, Stephen [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D1638B0A30364C7D98EA7AF410A9CB2A-HEALY, STEPHEN]  
**Sent:** 1/8/2018 7:22:46 PM  
**To:** Mac Yousry [gvsm@att.net]  
**Subject:** RE: Engine certification  
**Attachments:** hd-ghg-tractor-vv-workshop.pdf

See slide 40.

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**From:** Mac Yousry [mailto:gvsm@att.net]  
**Sent:** Monday, January 08, 2018 1:35 PM  
**To:** Healy, Stephen <healy.stephen@epa.gov>  
**Subject:** RE: Engine certification

Steve,

I'm available now through noon PST, or anytime after 1:00 PM PST today (Office: 714 974 3708, Cell: 714 235 1922).

Thanks,  
Mac

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**From:** Healy, Stephen [mailto:healy.stephen@epa.gov]  
**Sent:** Monday, January 08, 2018 8:19 AM  
**To:** Mac Yousry  
**Subject:** RE: Engine certification

Mac,  
When are you available?

Steve

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**From:** Mac Yousry [mailto:gvsm@att.net]  
**Sent:** Saturday, January 06, 2018 4:17 PM  
**To:** Healy, Stephen <healy.stephen@epa.gov>  
**Subject:** RE: Engine certification

Good morning Stephen,

We finally started work on this project and would like to pursue the engine certification route. The definition provided for an incomplete vehicle in 86.85-20 is not clear to me. In particular, what is meant by "primary load carrying device or container". Do you have a few minutes for a short call on Monday or Tuesday?

Thank you,  
Mac Yousry

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**From:** Healy, Stephen [mailto:healy.stephen@epa.gov]  
**Sent:** Wednesday, September 20, 2017 12:39 PM  
**To:** gvsm@att.net  
**Subject:** RE: Engine certification

Mac,  
If this is a complete vehicle under 14k lbs GVWR then it must follow the chassis cert path. If it is incomplete you can either chassis certify or certify as vocational vehicle using a certified engine and separately certifying the vehicle for GHG under 40 CFR 1037. If you follow the vocational vehicle path under 1037 you must use a certified evaporative emission system with gasoline engines.

Chassis cert regs 40 CFR 86.1816-18:

[https://www.ecfr.gov/cgi-bin/text-idx?SID=83b5f27101498fef92eb2d034deec802&mc=true&node=se40.21.86\\_11816\\_618&rgn=div8](https://www.ecfr.gov/cgi-bin/text-idx?SID=83b5f27101498fef92eb2d034deec802&mc=true&node=se40.21.86_11816_618&rgn=div8)

Tractor and vocational vehicle GHG regs 40 CFR 1037:

<https://www.ecfr.gov/cgi-bin/text-idx?SID=83b5f27101498fef92eb2d034deec802&mc=true&node=pt40.36.1037&rgn=div5>

Stephen Healy  
Mechanical Engineer  
EPA OTAQ Compliance Division  
Diesel Engine Compliance Center  
734--214-4121

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**From:** Mac Yousry [mailto:gvsm@att.net]  
**Sent:** Friday, September 15, 2017 12:03 PM  
**To:** Stout, Alan <stout.alan@epa.gov>  
**Subject:** RE: Engine certification

Alan,  
  
That explains why Justin did not respond.

**CBI / Ex. 4**

Thank you,  
Mac

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**From:** Stout, Alan [mailto:stout.alan@epa.gov]  
**Sent:** Friday, September 15, 2017 4:46 AM  
**To:** Mac Yousry  
**Subject:** RE: Engine certification

Mac,  
Indeed, Justin left the agency almost a year ago. I'm surprised the email doesn't bounce back.

Does your **CBI / Ex. 4** vehicle have a gasoline or diesel engine, or something else?

Alan

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**From:** Mac Yousry [mailto:gvsm@att.net]  
**Sent:** Thursday, September 14, 2017 6:17 PM  
**To:** Stout, Alan <stout.alan@epa.gov>  
**Subject:** FW: Engine certification

Good afternoon Mr. Stout,

The email below was sent to Mr. Greuel on 8/17, but he may no longer be the correct recipient, since I did not hear back.

Would you please forward this inquiry to the person responsible?

Thank you,  
Mac Yousry  
GVS Corp.  
714 974 3708

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**From:** Mac Yousry [mailto:gvsm@att.net]  
**Sent:** Thursday, August 17, 2017 3:22 PM  
**To:** 'Greuel.Justin@epa.gov'  
**Subject:** Engine certification

Good afternoon Justin,

We are working on a [CBI / Ex. 4] vehicle with a GVWR of [CBI / Ex. 4] and would like to determine if the engine certification route would apply for the [CBI / Ex. 4] instead of chassis certification.

Please let me know if [CBI / Ex. 4] is possible for the vehicle with a [CBI / Ex. 4] GVWR or if you need additional information.

Thank you,  
Mac Yousry  
GVS Corp.